Official and Classified

Continued from Page

SITUATIONS VACANT

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American fish processor desires to air freight fresh cod fillets daily to England and requires an experienced sales agent.

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MANAGER

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SKIPPER, good crew require prawn trawler, Clyde, Share basis, three to owner, three to crew. Good returns. Muir, 58 Elder Avenus, Girvan, Ayrshire.

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VERSATILE woman of 25 seeks interesting job on west coast Scotland or Islands, possibly helping fishing or farming family or similar. Lots of experience covering and repairing creels, Box Number 633.

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July 15, 1977

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The new purser trawler Breneline has started fishing . . . two years behind scheduls. She was one of six hulls left waiting to be fitted out when the Dundee yard of Smith and Hutton went out of business in 1975. Finally completed at the Sandhaven yard of J. & G. Forbes, she is now pursing for sprats off the Humber. Built for Skipper Alexander D. Messon and partners of Fraserburgh, Breneline is fitted with chilled seawater tanks. Full description soon.

THE EUROPEAN Commission is proposing to ban herring fishing in the North Sea throughout next year and possibly into 1979. Finn Gundelach, the Commissioner responsible for fisheries, told the European Parliament in a late night debate last week that a ban on horring would be meaningless if it was not extended into 1978 and possibly into part of 1979. The Commission would make proposals to that effect soon.

When they do, the proposals will go to the council, the target for some outspoken criticism by Mr. Gundelach in his speech. He said that it was deplorable that Britain had had to take national measures, but the responsibility was with the Council of Ministers, not with Britain.

When they do, the issuing a statement bitterly attacking the Government's fishing was made independently of the EEC, the Government could be flexible in operating it. They should grant exemption to the few boats which fished entirely for herring. Other boat operators would not object to that.

eight to one against Britain, but rather divided three or four ways. Their inability to agree on a conservation policy posing their own 1,000-

without a conservation policy, and even a small catch would the first week of October. out the fishing in danger for

would expect to get around deducted from the next 15,000-20,000 tons, he added.

ouncil of Parinaters, not with critain. The council is not divided QUOTA SET

and caused the crisis.

Herring could be extinct in the west coast season he North Sea by 1979 opens later this month.

The quota will last until At a meeting in Inverness, fishermen set a ceiling of 10 Reacting to the proposal units per man per night at sea Jim Lovie, chief-executive of for each boat — and the limit

Hugh Brown, under secretary for Scotland, disrepeated representations had been made to ministers about

this and they had resisted making exceptions. Although they wanted to be flexible, it would be crazy to put at risk the possibility of

future agreement by such an In his statement later, Mr.

Jim Lovie, chief-executive of the Scottish Fishermen's Organisation said: "We will need some North Sea herring next year". Under a strict management regime we would expect to get around would expect to get around week's catch.

Ior cach final matter and the strict must not be exceeded.

Jim Lovie, chief-executive making the case for some time to Mr. Brown and Mr. Silkin and have not been given a firm decision until to-deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and have not been deducted from the next blow to the fishermen contact making the case for some time to Mr. Brown and Mr. Silkin and the case for some time to Mr. Brown and Mr. Silkin and the case for some time to Mr. Brown and Mr. Silkin and the case for some time to Mr. Brown and Mr. Silkin and the case for some time to Mr. Brown and Mr. Silkin and 15,000-20,000 tons, he added. week's catch.

Meanwhile, in the Commons, Mr Donald Stewart, that no catch limit would be market for herring.

Leader of the Scottish put on the two herring There's plenty of herring: see National Party there, was drifters based at Stornoway page 2

fined

suppose they had to keep the Scottish Nationalists happy".

A director of Jaczon Rederij, owners of the *Maria*, said: "It is scandalous and shabby, that such a thing can NOTWAY happen in a civilised country".

Inverness tomorrow (Saturday), to discuss the manage-ment of the UK share of the West Coast herring quota.

Jim Lovie, chief-executive of the Scottish Fishermen's restraint throughout the north-east Arctic before north-east Arctic before

3

Scottish fishermen meet at Treezers

More than the fishing could start from that area.

West Coast total allowable of the first factors and form that area.

Throughout the north-east Arctic before Norway unilaterally imposed the EEC quotas.

Norway's decision will inevitably mean the laying up of British trawlers in the next two months, including some of the fleet's big freezers which for the fleet's big freezers which fleet's big freezers which for the fleet's big freezers which fleet's bi of the fleet's big freezers which can now only fish in the north-east Arctic because the north-east Arctic because

SUCCESSFUL FISHERMEN USE

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MOREP GEAR

years — indeed they exploited the herring fishing to such an extent that it is said Amsterdam was built on the proceeds of the fishery from "behind the Shetland island of Brassov".

Stern trawler Hammond Holland by the tug Moor Holland.

Holland for main engine The tow began on Sunday morning and Hammond Innes arrived at her destination on Monday. Four of the Shipyard, Rotterdam.

Post-war years have seen a decline in the number of Dutchmen visiting Shetland,

which can now only fish in the north-east Arctic because of quota restrictions served to the summer season with few herring to eat a 39,000 tonnes, of which 10,000 have already been taken.

The served to be expensive to be expensive to the summer in living memory that a "fry" of herring is not available to the islanders, and they are missing it badly. But the Shetlanders will accept the total ban on herring catches in the North Sea this action in closing down the herring grounds.

Which can now only fish in the north-east Arctic because of quota restrictions by the Russians.

The Hollanders' face the summer is 53,000 tonnes, of quota restrictions by the Hollanders' face the summer season with few herring to eat — so do the Shetlanders. This is the first summer in living memory that a "fry" of herring is not available to the islanders, and they are missing it badly. But the Shetlanders will accept the total ban on herring catches in the North Sea this year, as long as foreign predators are not allowed to sweep, the area.

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The House of Commons that a "fry" of herring is not available to the islanders, and they are missing it badly. But the Shetlanders will accept the total ban on herring catches in the North Sea this wheelhouse to go below to see what was the matter, limit when engine trouble developed. Dodd went below, limit when engine to the summer in living memory that a "

spotted on January 10, taken out of operation as it bringing hace in the state of the new that are point by Chief Sea Fisherles Board of Trade-regulations, as local of the fisher of the state of the new that are point by Chief Sea Fisherles Board of Trade-regulations, as local of the operation as it bringing hace a point of the operation as it bringing hace a point of the operation as it bringing hace a point of the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it bringing hace are provided in the operation as it because the operation as it

Dutch REGRETS IN Power trouble fined SHETLAND WHILE Shetlanders do not want to see foreign fishermen cleaning up their traditional grounds, there was genuine regret The 'Dutchies' hour hour last top wet fish The 'Dutchies' have been fishing for herring off Shetland for hundreds of stern trawler Hammond Holland by the tug Moor ONE of Hull's top wet fish The vessel is expected to be the vessel are returning to the vessel are return

Just before the town in Hammond Innes had been Hull fish dock for three was then that the engine was then that the engine ble developed as the tast.

She was bound that Bear Island grounds to out only a few hours is she had to return.

with £25 costs by Penwith "He had no intention of Magistrates at Penzance, fishing within the limit. It

after pleading guilty to fishing within the limit. It was unfortunate that these circumstances conspired mittee was told at limit.

Prosecuting on behalf of the Cornwall Sea Fisheries Millegate Millegate within the limit," said Mr. fishing within the three-mile circumstances conspired by meeting a together to send the boat ly meeting a together toget

trip. She was bound by

In normal dicu

she would have completed full trip by last weeken



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herring! — say skippers on the grounds

A LETTER from the (SNP MP for East House of Commons herring stocks. committee last week.

skipper of a Scottish Aberdeenshire) claim- been used the cold purse seiner disputing ed that fishermen in would have been the scientific evidence of north-east Scotland times greater, it will the size of herring are unanimous in their said. stocks in Scottish disagreement with the Another skipper la waters was quoted in a scientists' estimate of said that from [6]

The letter, written to stemmed from the of the North Ses, s Douglas Henderson volume of herring be- least one herring se

ing seen and reported especially in last winter's fishing.

Ernest Simpson skipper of Sedulous gave details in the letter of second letter of reports by various skippers of good herring shoels.

In one report a span purse seine net had twice been used to catch 30 tons of good quality herring—and if a herring met had

miles off Shetlandin That disagreement the Norwegian sets was indicated on the

sailed late in May. Also in May good shoals had been

over seen".

Alick Buchanan

Smith (Con. Mp for

was Grimsby's second best freezer with lanlings of 2,283 tonnes of hite fish; Defiance with 2,084 tonnes came third. BUT is Grimsby's only freezer trawler owners and, of its eight-strong fleet, one vessel is laid up with mechanical trouble.

in September.

Norway have run out.

for another month having

Last year Conqueror

Brītish

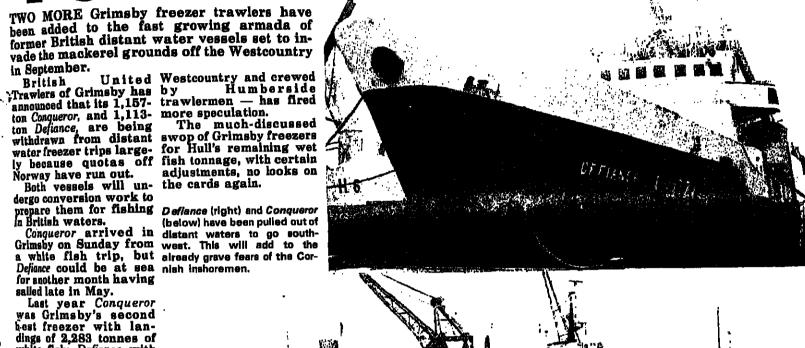
Almost inevitably, the decision to transfer the two big freezers on to the south-west mackerel

United Westcountry and crewed may have by Humberside

British United Westcountry and crewed by Humberside trawlermen—has fired more speculation.

The much-discussed swop of Grimsby freezers for Hull's remaining wet fish tonnage, with certain adjustments, no looks on because quotas off adjustments, no looks on Both vessels will un- the cards again. dergo conversion work to

prepare them for fishing Defiance (right) and Conqueror in British waters. (below) have been pulled out of Conqueror arrived in distant waters to go south-Grimsby on Sunday from west. This will add to the a white fish trip, but already grave feers of the Cor-Defiance could be at sea nish ins



the Dutch coming too?

STRONG rumours that the Dutch — after being deprived of North Sea herring — are to set up shop in British ports to get at the mackerel were reinforced last week.

Although no one was naming the country, it was revealed that an EEC member state looking at Milford Haven as a fishing base for its fleet

Roy Evans, general manager of the Milford Docks Co., said that representatives of the country concerned had been to the port and had been pleased with the facilities offered. But the question of how the scheme would be financed and still to be settled

This scheme was discuss ed at the company's annual general meeting in London when it was also revealed that 11 Hull freezer trawlers will use the port from September to April, unloading mackerel catches into freezer carriers

The season could, it was stated, be extended by two or three months with catches of plue whiting landed by

£55,000 BILL FOR SHIP often three or mores. Most of the shoals were of 30% of the shoals were of A DUTCH skipper was fined £25,000 in Lerwick Sheriff court on Wednesday last week when he admitted fishing for herring in the North Sea only eight hours after a new British government of the court to protect British interests. The order exists not only that Johanna ran down the at around £10,000. In Chambers immediated

onker, skipper of the Dutch essel Johanna.

Marinus Noordenbos, the in the North Sea had been Jonker, skipper of the Dutch

CHIPPANI TORS

CARLES OF THE SECOND PARTY OF THE SECOND PARTY

EM

3

Sea only eight hours after a new British government ban had come into operation.

The ship's gear worth 227,180 was declared forfeit and so was the catch worth send so was the catch worth sin test by HMS Jersey mitted to buy). Total penalties were £55,000.

In the dock was Arle Pieter Johanna may not be allowed to take the case there bear that Johanna may not be allowed to the International Court of the damage.

The ment to allow the solicitor to potation distributed to protect British interests, but the interests of all the Johanna may not be allowed to British masters who will a bound the fishing gear of his boat Guide in the fishing gear of

Marinus Noordenbos, the boat's owner who was in court with a legal advisor, said:

tion banning herring fishing in the North Sea had been made on February 28, and continued in force after EEC

SWECE TINEC TOO with a legal advisor, said:
"We think it is a harsh sentence, and I shall be taking advice against it."

Before Jonker pleaded guilty, his local agent, solicitor John Matthew, asked Sheriff MacDonald to rofer the matter to the EEC Court in Luxembourg, allowing the skipper to find cation in order that he could sall.

Sheriff MacDonald be excuse. He told in order that he could sall.

Sheriff MacDonald be excused: "I do not accept in grozance of the British regulations, and I gointed out that he had no authority to allow cation—if it was desired the matter."

Watthew said that it calks broke down late in June.

Mr. Matthew said the skipper has been heavily fined at Lerwick Sheriff Peterson, claimed the skipper understood from the Swedish accepted there was a mitigating circumstance and court fishing in this area.

AnoTHER foreign skipper day of the skipper has been heavily fined at Lerwick Sheriff Peterson, claimed the skipper understood from the Swedish accepted there was a mitigating circumstance and subtract to go in-distingting the skipper authorities that he was permitted to go in-distingting the skipper and the count of the swedes since April 1 this skipper has been heavily foreign the skipper has been heavily

it was desired the matter of it. (valued at £5,600) conshould be referred he would have to hold the boat in port until the local case was serious matter. Secretary for solution of it.

(valued at £5,600) converse had tried to hold that skippers are bound to know the British law.

Brown, Under the was allowed to contact the skipper at sea on to know the British law.

This is a more serious matter buy them back for an uncertainty of the skipper at sea on the skipper at skipper at sea on the skipper at sea on the skipper at skipper at sea on the skipper at s

have to hold the boat in port until the local case was settled.

After a 20-minute adjourn
This is a more serious matter, buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. Tusting the was allowed to buy them back for an until the local case was settled. He was allowed to buy them back for an until the local case was settled. This is a more serious matter. The was allowed to the was allowed "It will not be safe for them | fisherman who

Meal plant fish: the power to do so. They must put aside the fact that Cornish fishermen have no political leverage, that any English city can outvote than They must set you

CORNWALL'S nationalist party, Mebyon Kernow, is making another plea for the county's own 50-mile limit in a notice now being distributed.

The notice, addressed to cluding all non-Cornish boats
"The fishermen of Cornwall',
is headed: 'Why is Westminster dains notice.'

The notice, addressed to cluding all non-Cornish boats
from this crucial area will the
livelihood of our fishermen be minster doing nothing? protected.

It reads: "While the "But it is up to the govern-

government at Westminster ment to act — only they have wastes time making excuses for doing nothing, time is running out for the Cornish mackerel-fishing industry. This coming winter will see the arrival in Cornish waters more trawlers than have been here since the war.

police, local Cornish ishermen are facing the loss of their livelihood.

More stringent measures is the powers that be that we would then have to be in the powers that be that we would then have to be in the powers that be troduced, similar to those know that mackerel stocks banning herring fishing in the will disappear or they will be

this crucial issue; join with Mebyon Kernow in demanding fair treatment for Cor-nish fishermen; the solution is in your hands!

CORNWALL Sea Fisheries Committee is to send These large boats come in such diverse at the such diverse to the war, all industrial fishing inside the 200-mile limit. The move is an effort to ease pressure on mackerel.

Scotland and the Isle of Man,
Northern -Ireland and
England, and they are all
after one thing — Cornish
mackerel

"While the government and the producer
organisations talk and talk
about quotas which they

ishermen are facing the loss of their livelihood.

"Mebyon Kernow has been saying for three years that there is only one way to protect our fishing industry; local fishermen, before we have written to ministers, organisations, yet none of these has adopted or taken up our suspection.

"80 what is the obvious solution put forward by M6, what is the obvious and how desperate it is to any in the standard promiting the fishing continue until no aboals remain, he said.

"We must do something the fishing continue until no aboals remain, he said.

"We are to get anywhere now if we are





With all the problems there are in the fishing industry at the moment, Quotas etc. Quality of finished product is of paramount importance and we believe we can offer to the fish trade a service which is second to none. Our fish units have a wide range of facilities which include vertical plate freezing, blast freezing, IQF, splitting, cutting, grading, shell fish processing, quality control and packaging. We also have space for development and we would, on contractual terms, be prepared to extend and increase our facilities to meet your requirements. If you are interested in processing/storage or developments, please contact our U.K. Sales Managar in London and he will be



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DEPMAR 103

The DEPMAR 103 has eight depth ranges between 0 and 280

fathoms. Sounding rate, paper speed and pulse length are automatically adjusted to the range in use. Power consumption is only 29W from a 24V d.c. supply, and compact 50 kHz transducers are available for wooden, fibreglass and steel vessels. Adjustable white line, and 'bottom anywhere are featured for fishing.

DEPMAR 131

Smaller than the 103, the DEP-MAR 131 is only 210 x 290 x 150 mm and weighs 6.6 kg (141 lbs): It has six depth ranges between 0 and 120 fathoms with alternative scales to 240 fathoms and, in addition, a 'flasher' with two range scales, providing for paper economy on passage. The DEPMAR 131 has 4 inch wide paper compared with the 103's 6 inch, but like the 103 it has white line, a 'bottom anywhere'

facility, and very low power continues sumption. Alternative 50 kHz or sumption. 200 kHz transducers are available for wooden and fibreglass vessels, and a 50 kHz transducer for steel Vessels.

Depmar 103 and 131 echo sounders are available now from Kelvin Hughes. Write-or phone for full details

HH KELVIN HUGHES

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The contract of the second of

186

had twice previously broken a trip.

Skipper Brown's hig trip It stood just a fortalit-was made up of mostly cod, until Ross Leopard was

codlings and haddocks in tip- to exact her good mine

TWO GRIMSBY trawlers received bow damage last week after collisions in dense fog as they headed home after middle-water

First in trouble, H. L

her bows and the coaster, also damaged, returned to Germany for repairs. damaged, returned to Gerdamaged, returned to Gerdamage crystal Palace had a very ment services and innarrow scape when she was involved in an accident with the 52,000-ton tanker Chief colocotronis off the Humber this month.

Only smart action by Skipper Dave Wilson, who put Crystal Palace hard With the exception fishing boat cases which will continue to be dealt with by Fisheries Division, the teams astern, avoided a very nasty collision and minimised the will be responsible for the investigation of applications for demaged. The tanker was unfinancial assistance from the respective areas and for after care advice to firms and

businesses already established in these places. The teams will work in close collaboration with the Shellfish specialist staff in the

divisions dealing with fisheries, land use and agriculture, industrial levelopment, marketing and Dealing with the report. Professor Alexander said that as a result of higher prices for

Committee for a restric- fish, the earnings of fishermen in the area in the on boats fishing for past year were considerably better than in the previous of two years. Although boat Fisheries had previously owners appear to be more confirmed that a by-law on confident about the future, March 18 this year prescrib-ed a maximum length of 50ft., creased investment in new

but the committee agreed at its latest meeting that the size should be brought down to 40ft.

It would apply within the three-mile limit and was necessary if stacks want to be a second to the size of the size o

Professor Alexander said

Plestwood last week. stage and profit levels were During the annual meeting running so low that they of the Float many and the Float many and the running so low that they wood Fish co Transport Co., chairman one bad fortnight in the Harry Fairbotham detail-

than the corresponding at the port.

Period of the previous year.

Period of the previous year.

Lie He said that, despite this, also company had still been able to make a small profit, but added that trouble would not be far sheed if the present.

The head if the present the head if the head i

not be far ahead if the present trend continued. Some way had to be found to improve fish supplies at Fleetwood.

There was a Fleetwood.

There was a Fleetwood.

PRESSURE is to be put on atrongly criticised at times, the government for ald to particularly by the South increase facilities for Devon Shellfisherman's fishing in Devon at Associatio Salcombo and Dartmouth In the Salcombo and Dartmouth

the two major crab landing ports in the British

lease on about 80ft. of

First in trouble, H. L. The REMOTE areas of Taylor's 325-ton Osako was badly holed above the waterline after a collision with the German coaster Viking seven miles off Flamborough on July 5.

Osako later limped into Grimsby with a large gash in her bows and the coaster, also damaged, returned to Ger
THE REMOTE areas of the waterline areas of the Scottish Highlands a considerable improvement in the repayment of board loans, and a number of board

at both ports have been potential.

Kingswear Quay, while at Salcombe every available access to the waterfront has to

The Ministry add that landed at the harbours are processed locally, but are taken away out of the area.

A recent requirement i catches. But despite their year. The new trade has record, the landing facilities considerable expansion

einer tops recording PORT and company records have been set in a five-day spell by Grimsby-based vessels working through the Sleight agency. Skipper-owner 'Sandy' Sanderson, in the anchorseiner Sanrene, scooped a massive £10,957 grossing at Grimsby market on Monday to top the port record by just lived, high for Sleight. record. Also a new high last not this time with Duch of this time with Duch of the time Stock Dell Quay Fisherboat

to top the port record by just

Sanrene, back from a 14-

day North Sea trip of 336 kits, landed mostly cod and codling, plus 92 kits of quali-

ty plaice and eight of lemons.

19'0'x 6'7"x 1'6" Boat available now less engine and steering or complete, ready for sea, with diesel engine, 4 weeks. 17' 0" and 11' 0", Dorys also stocked. Phone:

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The new port record came during some of the best North Sea fishing so far this summer. Only five days earlier the 18-year-old Saxon of the same week. He grossed £37,447 on the same week. He grossed £37,447 on the same week by size of £29.07 was another week. He grossed £37,447 on the same week by size of £34,1925 of £ CAPSTANS LINEWHEELS **NET HAULERS PUMPS** COMPLETE KITS

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AGUSTIN D. PIQUE

Fish will decide

A spokesman for agents,
Tom Sleight (F.S.) Ltd., told
Fishing News: "We are
delighted to be back at the
top. It was a beautiful trip."

The proving record was

A spokesman for agents,
BUT's 130-footer Ross
Leopard made sure she set
a new Grimsby middle
water trip grossing rec-

held by Arcona Bay, which works through the Chapman break the record on her Ross Lcopard also smashed

The previous record was ord last week.

AS THE STORM clouds have gathered over Humber fishing so the battle for survival has escalated into a war of words between the ports. This has been provoked by a growing realisation that only one fishing port might be needed on the Humber in the future.

In a document put out this week by the owners, merchants and local council, Grimsby makes a case for its future as not only the main port on the Humber, but also in the United

For a long time Grimsby as a fishing port has lived in the shadow of Hull. Only last year, over £1m was invested in the move to a new fish dock at Hull which now, with an average of one landing a day, looks something of a white elephant.

The natural division for Humber fishing seems to be for Hull to continue as a frozen fish port, with Grimsby concentrating on wet fish landings.

Despite the claims made for Grimsby, there is no doubt that any big transfer of fishing vessel tonnage could not be handled.

Only one freezer a time can be discharged at Grimsby and even this swallows up over 30 men | teresting paper from the Shellfish Association Confession from a lumper force of around 200, which would present landing problems for other ships.

While Grimsby has proved to be more versatile than Hull, the future of fishing ports is going to be decided by where the fish are. With the emphasis on British fishing now moving to the South-west and Westerly grounds, this could bring Milford and Fleetwood into contention as major centres of British fishing operations.

As far as the future for Humber ports is concerned what really needs to be examined is the happens, the smaller boats will have to follow the fish.

fishing news

Harry Barrett Assistant Editor: Ian Strutt

Scottish correspondent: Gloria Wilson Advertisement Director: Fred Purssell

Advertisement Manager: Bill Barber

Managing Director: W. A. Cathles

Circulatio
Ann Dunsford 75-77 Ashgrove Road, Ashley in this respect. Down, Bristol BS7 9LW. We would a Tel: 0272 425711

Published weekly Postal subscription rate: £8 per annum £8.50 overseas

Registered as a newspaper at the Post Office. ABC

858 London Road, Cheam.

MOVE is to be made by Cornwall Sea Fisheries tion of 40ft. to be placed hellfish in the area.

coley and other mixedic

Ironically, the me

The Minister

necessary if stocks were to be | ment. conserved, especially

SIR, We are delighted to see Fishing News' Fish Heading Supplement giving publicity to Tony Woodcooks in which he gave a lot of practical tips to be shellfishermen make better sales abroad.

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L.O.A. 28 A Display

We in the FOS have over 20 local societies and associations concerned specifically with shellfish, and many of them are actively engaged in the export business. They should be given every encouragement.

Unfortunately, the "paper work" and restrictions attaching to health clearance cer-SECOND HAND (Seed) (I) SECOND HAND (United (I) SECOND HAND (Fig) EEC countries are concerned. do present a problem.

Surely, if the government wants to see our industry standing on its own feet in helping to compensate for some of the coatly fish imports which produce an imbalance of payments, they should try to make life easier for our people

We would strongly recommend co-operatives and groups engaged in export business to get hold of a copy of the current Export Handbook issued free on application to the British Overseas Trade Board, 1 Victoria Street, London SW1H OET (Tel: 01-215) 7877).

E,B. HAMLEY. General Secretary, isheries Organization Society

ed the spring landings figures to underline the

There were rumours, he added, of eight or nine of the port's trawlers going industrial fishing later in the year. This move, if it materialised, constituted an added danger to an already difficult supply situation.

Merchants have their youngest-ever president, youngest-ever president.

Welsh, a partner in the Oban Fish Selling Co.

Geoff Anderson and Mr. A. R. Cook were difficult supply situation.

The meeting was told that members of the Fleetwood Fish Merchants' Association During that period, when landings were supposed to be at their peak, there was 22 per cent less fish in the port than the Comment of the supply situation at the nort.

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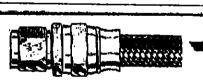
these engines can be relied on to be

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1 Foloy Street, Landon W1P 7LH Folox: 25385 (Andrew G) Tolophone: 81-868 1212 redexport - SPAIN MORRIS # Ton Trawl Hydraulic or belt drive. Standard drum capacity 120 fathoms of 11 in. wire. Larger capacity drums made to order. Suitable for boats 25ft, upwards. Details from LESLIE G. MORRIS

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and where she can be built."

complete and fit out to meet

The hull is a little over 17ft. long with a beam of about 7ft.

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FIRE-FIGHTING

RECENTLY a reader

asked whore he could get

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your requirements exactly.

thunderstorms the other night filled and topside planking had and sounder.

worried about the engine.

"Will it be a complete write-off or not? There's the

scho sounder too.
"The boat is not insured Steam hose and I can't afford to replace Experts recommend the

following drill, you stand a

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well-proven features of the design, but the

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the headline below the surface, the character

and position of the bottom relative to the

successful net monitor retains all the

fishing

fished for blue whiting.

new

NOW

The first — vitally impor-

If you let the air get at aither engine or sounder before you start work, your success may be limited.

So do not be too hasty in beaching the boat and pum-ping the water out of her.

At the start of the operation it is essential to remove all salt and sand as well as sank my boat ____ moisture from every single component in both engine

good chance of making the parts with a steam hose to replenish them with fresh oil. them. engine, and possibly the clean them, and then with an Before long we had the It is worth remembering sounder work again. engine running again as that water can penetrate

for the blue whiting

FISHING NEWS Then a liberal application ant — thing is to keep both of one of the moisture underwater, until you are repellent compositions that completely ready to start come in aersol sprays

The sump and gearbox, of course, should be drained and cleaned.

Air intake and other filters should be replaced; so should all seals and bearing inserts.

The sooner the engine and sounder are re-assembled and run, the better. Every part of the sounder should have a final application of water repellent spray before it is switched on.

When both parts are in

opened up in that long
On removing both parts operation again, regular use spell of dry weather.
from the beached boat, you will help to keep them warm, "I think we can get her into should take them to pieces dry and in good working the shore at low water but I'm and hose or wash every piece order. As additional advice, I

would like to add that I had a ducking.
boat which was holed and An echo sank, and lay underwater for

When we got the boat out of

SUBMERGED RECEIVER



An echo sounder in the boat proved, however, to be

irreparable. We soused it in fresh water and I can't strong to replace Experts recommend the when we got the boat out of treatment all over again to sounder.

"Is there anything I can do to save them?"

If you can carry out the save here anything I can do to save them?"

Experts recommend the When we got the boat out of the water and lifted out her and later put it in a hot air diesel engine, our local cupboard for 12 hours. Yet that minute particles of salt engineer thought it only subsequent examination necessary to flush all old oil revealed that water had revealed that water had penetrated the drive motor, have been removed.
 and salt water out with fresh, penetrated the drive motor,
 The next step is to blast all clean all filters and then transformer and coils, ruining

DETECTING TRANSMITTER

However, when Br B' M was, therefor sidered to be the stritable and effecting quenching equipment manently installed is inginerooms and hold B'IM is a clear guy does not in itself our smoke hazard.

extinguish a firebuis

cent concentre

July 15, 1977

Containers

An amount of Bly, ficient to saturate a paren can be stored in mar lighter container the necessary for CO_r

The containers, bentidirectly over major far areas and so rends: fair perhaps as far as the transducer. If this happens, shorting of the transducer complicated pipered ne cessary. Concentration of Ch.

total flooding systems: but a concentration of BCF needed to exting fire is between 5 and cent. Yet a fire fighters "I WANT to purchase a to a concentration of in fairly fast (12-15 knot) cent would be in p boat about 18ft. long for danger.

QUESTIONS

IF YOU have any quit about boats, equipmets or methods, John Suga always prepared to the enswer them if they mir with a stamped address

Wadham Stringer (Dell Quay) Ltd., Clovelly Road, Southbourne, Emsworth, Hampshire, mould a GRP dory hull which you convolete and Gt out to made

"WHY DO YOU not k? and a draught of less than a ly a complete steen

that it will remain upright This question is quently asked of the D. Navigator Co. ever size Transom height is 20in. so you could power it with any long shaft outboard engine which would give the speed range of autopilots. The answer today is 5

the company can such steering gear suitable inc. sizes and types of the

The gear comprise as-ing engine, ruggedly desp to absorb all shocks, to can be mounted either or bolow decks.

iro quenching equipment It also includes 1 feb collar which can be const or the unginuroom in his to varying diameter I can now add to the information I gave him. BCF gas is wheel and associated to mitter, designed for an excellent extinguishant for use in small engine com-partments (in all except GRP boats), but not in engine rooms in which fire fighters

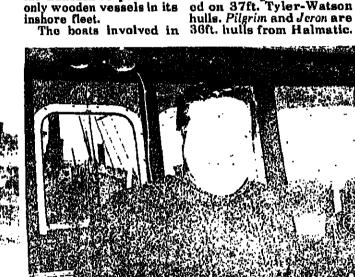
Pedestal The latter can be one

ay wish to remain or renter soon after the gas has Bimilar to Carbon Dioxide in the concentrations re-quired for it to be effective, BCF is dangerous to humans both from a toxic and an

BCF and another balogenated hydrocarbon gas, called BTM, were originally evaluated during the 1939/45 war for combating fires in aircraft, tanks, and compartments in ships in which it was impracticable to install or use bulky CO₂ fire fighting equipment.



Part of the five-boat deal! Cappy (above), based on a Tyler-Watson 37ft, hull, and Jeron nw), one of the 36ft, hulls from Halmatic in Orkney.



TA A

five-boat deal

man and now manager of the Gambian firm, leaves the Lancashire port with only wooden vessels in its only wooden vessels in its of the Gambian firm, leaves and Rodolinga are all bastod on 37ft. Tyler-Watson by the Greenal Property of the Gambian firm, leaves and Rodolinga are all baston of the Greenal Property of the Greenal Property of the Greenal Property of the Gambian firm, leaves and Rodolinga are all baston of the Gambian firm, leaves and Rodolinga are all baston of the Greenal Property of the Gambian firm, leaves and Rodolinga are all baston of the Gambian f

its entire fleet of inshore GRP boats to Africa as well as one of its skippers. Five boats will be going to Gambia to fish for Sipol (Gambia) Ltd. on an experimental basis.

A cash deal negotiated by Jack C. Hilton, a former Maryport fisherformer Maryport fisher- owned by the Greenhall tropical water in Africa.

Mr. Hilton also reveal ed that Skipper lan Fairclough would be going out to Gambia on a hree-month mission to nstruct native fishermen in the use of the boats. The Gambian firm also

operatos ex-Greek freezer trawlers. These supply Nigeria with frezen blocks.

Would he be back to buy more boats? "Let's see how those work

After solling his boat *Pilgrim* t Gambia. Skipper lan mirclough (left) will be following her out of Africa. He will be nstructing native crews



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headline and footrope, the presence of fish

indication of the quantity of fish in the net

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to interfere with normal operations.

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It will also monitor water temperature at

above and below the headline and an

the net.

Tests revealed that BCF was superior for saturating small spaces from portable containers but not so: in manually or automatically operated installations.

asphyxiation aspect.

impracticabi**e**

A seven per cent concentration of BCF was required to March 11, 1977

THE fast growing Merseyside yard of McTay Marine is to build a steel 83ft. combination side trawler/long liner for the Cornish port of Newlyn. She is to cost around £1m on a fixed price contract.

Ordered by Skipper T. S.

Thomas and his two sons (both skippers), the boat is acheduled for delivery by February or March next year, just eight months after signification.

In the Drice contract.

Winch boomswinger and Below: Artist's impression of Ocean Triumph II. Below right: Skipper Ian Murray, his wife two orders and daughter, with Mrs. McBurney, wife of McTay's chairmen.

Designed by McTay, the 110-gross ton trawler will have a breadth of 24ft. depth of 13ft. 6in. and a refrigerated modation is to be provided for

The new Cornish vessel is to be powerfully equipped for fishfinding: her specification of 825 bhp at 900 rpm, turning a four-blade, fixed-pitch, manganese bronze propeller through a 3:1 reduction Blackstone gearbox. A Kort nozzle will have Hannen slots to increase manoeuvrability. Design speed is between 11.5 and 12 knots.

The new Cornish vessel is to be powerfully equipped for fishfinding: her specification calls for two Furuno sonara, types FH105. The latter set is thought to be the first of its type fitted to a British vessel.

There are also two Furuno echo sounders, type F850 with AD scope and type FVV11; a Furuno FNR 200 and Desce Newton 11.5 and Desce Newton 11.5 and Desce Newton 12.5

40kW 415V, three-phase, 50 Communications equip-cycle alternator, fire and ment will include Sailor ssb bilge pump and net retrieve unit. In addition there will be a Lister SE 3 MA 10kW harbour set under the phone.

We wish to contact

reliable persons capable of

acting as our Sole representative

for England/Scotland. All enquiries

will be handled with the utmost discretion.

Mr. J. Smit

Write or telephone:

Keizersgracht 197

Amsterdam, Holland

Telephone: 255484 and 243339

Hydraulic drive for the trawler's deck gear, and a 14in. Karmoy fish pump, is supplied from a Robertson pump mounted on the front end of the main engine.

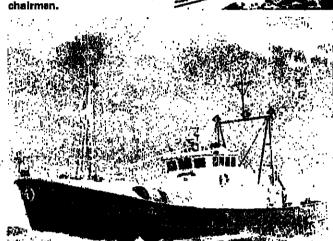
The new Cornish vessel is

knots.

Auxiliary power will be provided by a Lister RW 5 and Decca Navigator Mk. 12; and Furuno FRS 24 radar with variable range marker.

40kW 415V, three-phase, 50 Covele alternator fire and continuous equip-

This is the well-known





bour set under the whaleback. Deck gear is to include a Robertson type 10M2 three-drum, ten-ton hydraulic trawl winch; at type 3PN12.59 and an individually electrically - driven MacTaggart Scott line hauler. Gilson winch, landing Gilson winch, landing Gilson winch, landing Gilson winch, landing Deck gear is to include a Robertson type 10M2 three-drum, ten-ton hydraulic trawl winch; at type 3PN12.59 and the readily fitted. The new vessel is designed for pelagic as well as demersal trawling and she is arranged so that seawater tanks can be readily fitted. The Thomas family expects to operate her on grounds new to them, as well as series of Scottish seiner trawlors from McTay's 74ft. The Thomas family expects to operate her on grounds new to them, as well as demersal trawling and she is arranged so that seawater tanks can be readily fitted. The Thomas family expects to operate her on grounds new to them, as well as demersal trawling and she is arranged so that seawater tanks can be readily fitted. The Thomas family expects to operate her on grounds new to them, as well as demersal trawling and she is arranged so that seawater tanks can be readily fitted. The Thomas family expects to operate her on grounds new to them, as well as demersal trawling and she is arranged so that seawater tanks can be readily fitted. The Thomas family expects to operate her on grounds new to them, as well as demersal trawling and she is arranged so that seawater tanks can be readily fitted. The Thomas family expects to watch the form to McTay's 74ft. Scottish seiner Triumph II is similar in full form to McTay's 74ft. Scherhory performed by 12-year-old Alexandra Murray of Occan Triumph II set off under the watch the form to McTay's 74ft. Caterpillar reverse — reduction of the boat's owner, Skipper fan Murray of Occan Triumph II set off under the form to McTay's 74ft. Caterpillar reverse — reduction of the boat's owner, Skipper fan Murray of Occan Triumph II set off under the form to McTay's 74ft. Caterpillar reverse —

JOPA fish box

She made the trip in 39 1,500 rpm. This drive hours and had to be slowed to meet the tide at her destina-

moet the tide at her destination.

It is hoped that fitting out will be completed by the end of August. Skipper Murray has said that he will be fishing the North Sea for cod and haddock.

Built to WFA approval, the Ocean Triumph II has a broadth of 22ft. and depth amidships, 1ft. Sin.

broadth of 22ft. and dopth amidships, 1ft. Sin.

She is of all-welded steel construction with rounded bilge hull form, flush deck, transom stern, raked softnose stem, box keel and steel whaleback.

An aluminium alloy gutting shelter is being fitted and the wheelhouse is also aluminium to cut down top weight.

The seine ropes will be the shelter of the whilest the seine ropes will be studied by the seine ropes will be studied by the seine ropes will be shelter of the whilest the shelter of the whilest t

weight.

The hull is divided by three watertight bulkheads into forepeak and netstore, fish hold, engineroom and cabin for a crew of eight.

The fishroom, of 2,900cu.ft. capacity, is insulated on the sides, bulkheads and deckhead with 3in. injected foam behind a laminate of GRP.

It is fitted out for boxing at whaleback and aligned and aft.

The reels will be controlled and aft.

The reels will be controlled and aft.

The reels will be controlled and aft.

A Rapp 24in. power blek as being installed in the sign mounted on an HIAB 50 mounted on a

GRP.

It is fitted out for boxing at sea and has three ice lockers on each side of a hatchway which opens on to the main deck just forward of the gutting shelter.

Fuel oil and fresh water capacities are 3,300 and 500 gailons respectively.

Propulsion is by a Caterpillar D378 diesel of 565 hhp at 1,225 rpm. The engine, fitted with dual-station Morse controls in the wheelbouse in the wheelbouse is completed to a 1,625mm dia. four-blade; the art side of any law in the art side of a law in the media senior of signs to be equipped with Grade and bottom expansion of a type 450 autopiloty at type

stern trawlers at Lowestoft was top earner at the port last week. The 80ft. Boston Sea Ranger, which joined the fleet last December, made £14,321 on Monday's market last

week.
Skipper Ian Lace had brought the vessel back from an 11-day trip with 484-kits

In second place was one of In second place was one of the port's largest vessels— the Coine Group's side trawler St. Rose (Sk. S. Jones). On the Friday she put ashore a 413-kit catch after 13 days at sea to gross

#11,700.
Third place went to Small & Co.'s side trawler Suffolk Venturer (Sk. Harry Baxter) which returned for the Vednesday market after 12 days with 421-kits which sold

Also landing on the Wednesday was Talisman's Bentley Queen (Sk. Alan Gill) which had 333-kits after 12 days to gross 210,862.
In fifth place was Boston Sea King (Sk. Paul Meen)

which, on the Tuesday, land ed a 370-kit catch after ten

ed a 370-kit catch after ten clays to gross £10,785.
Sixth place was taken by Colne's St. David's (Sk. J. Harper). She landed 350 kits on the Thursday to earn £10,460 after 12 days at sea. Other useful landings during the week included Boston Wasp with 352 kits, Boston Kinsman 345 kits and Binley. Kinsman 345 kits and Ripley

Banks had 359 kits.

It is hoped that the survey will provide a guide to the ways in which support may best be given the industry.

of the South Devon Shell Fisherman's Association, has been elected the new chairman of the Devon Sea Fisheries Committee.
Simon Day, a local county councillor at South Hams, has been appointed vice.

has been appointed vice-

It was sea fisheries officer, Bill Marquand, who advised the committee to have an economic survey carried out. The report is understood to

contain over 30 recommen-

dations, some of which may have to go before the island's States parliament for ap-

One problem which is highlighted is a lack of facilities for the fishing fleet at St Peter Port Harbour.

C. S. FORESTER continues to lead the Hull Distant Water Challenge Shield Competition with Hammond Innes second, but the points gap between these two Newington wet fish stern trawlers has closed.

margin separating the pair is 1,146 points less than before, but she is still 7,570 points in front of her closest rival.

The latest list covers the situation to the end of May, with allowances for trips begun that month and ending in June. trawlers has closed.

C. S. Forester is still positions for April in well ahead, however. The brackets) are:

(Points) 33,188 25,617 21,817 (1) C. S. Forester (Newington (2) Hammorid Innes (Newington)
(3) St. Geronthus (Hamling)
(4) Ross Sirius (BUT)
(5) St. Gles (Hamling) 12,265 11,620 9,569 8,574 19,986 18,440 (6) Arctic Corsair (Boyd) (11) Ross Orion (BUT) 18,017 9,418 17,376 8.479 Somerset Maugham (Newlin 9.226 18,707 16,523 16,396 16,633 16,302 St. Dominic (Hamiling) 9,051 Lord St. Vincent (BUT)
Loch Eriboli (BUT) 8,090 8,272 13) Loch Eriboli (BUT)
12) Kingston Amber (BUT)
14) Arctic Caveller (Boyd)
15) Faistaff (BUT)
120) Ross Trafalger (BUT)
17) Portia (BUT)
18) Arctic Vendal (Boyd)
19) Benelle (Merr)
18) Ross Otrento (BUT) 8,914 6,721 7,924 5,702 6,422 6,708 4,857 5,716 13,855 13,134 Beta-on the move again

ANNO ANNO A

FISHING NEWS

A PARTLY fitted-out steel fishing vessel which has been tied up in Fraserburgh for a long time has been towed to Aberdeen where she will be completed by John Lewis & Sons Ltd.

When she is ready for sea later this year, the 85 ft. vessel will be offered for seals unless an owner. offered for sale unless an owner

is found earlier.

Named Beta, she is one of two boats originally ordered from the Bute Slip Dock Co. Ltd. by Scottish owners in association with the Salvesen Group. Her huil was built by C.B.S. Engineering of Liverpool about three years ago and the huil of the second vessel was built on the Clyde.

At a later date both hulls were

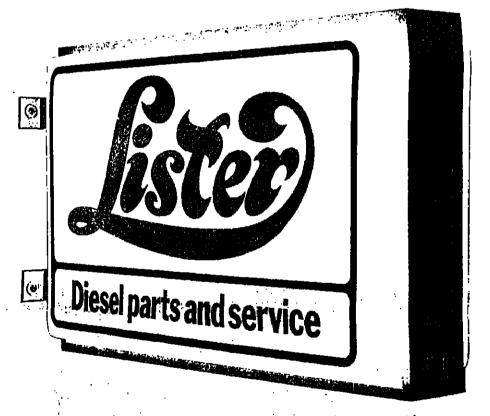
At a later date both hulls were taken for completion to the English yard of Glasson Marine

near Lancaster.
Following the closure of Glasson, both boats were towed to Fraserburgh where they have been tied up for about nine months. During that time Salvesen unsuccessfully tried to sell the vessels on behalf of the owners or to find skippers to take them over when finished.

Before leaving Glasson, Beta had already been fitted out with most of her engineroom equipment including a Mirrlees Biackstone engine, Ford aux-iliary engine and electrical gear.

The second vessel named Delta was less advanced. Lewis will fit the gear handling machinery, hydraulic system for its fish room, accommodation and deckhouse, and generally complete the vessel ready for sea.

There's only one way to keep your Lister engine a Lister engine. **GUERNSEY** studying a report on the development of the island's fishing industry prepared by the Marine Resources Research Unit



Our reputation for reliability is of course why Lister engines are used for so many tough applications.

And the only way to preserve that reliability is to use genuine Lister parts. All our replacement parts are

made to the same high standards as the originals.

But, just because they're genuine, it doesn't mean they're expensive.

In fact, often you'll find genuine parts are cheaper than copies-check with your local parts stockists.

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ister. Diesel parts and service

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"FANTASTIC" is how one former skipper described the Mustad Autoline long-lining system on the 85ft. Norwegian boat θ yliner after sailing with her on a short demonstration trip from Stornoway last month. The Norwegian boat has been designed around the system and was brought to Stornoway by the Highlands and Islands Development Board to show locals one method of fishing which could be used to supply the planned Breasclete fish drying plant.

Around a dozen went on the down to the usual story that if demonstration trip, including a skipper or owner is consumber of skippers and a vinced it will work profitably. Inside Øyliner's shelterdeck. Highlands and Islands Board then he will make it work. Her thousands of hooks are training skipper experienced profitably. in long-line fishing. That pat

ing operation on film.

The group was told that the equipment, costing between vessel in March, on the short \$230,000 and \$40,000, could be demonstration run in Aale-

That pattern emerged from shooting. in long-line fishing.

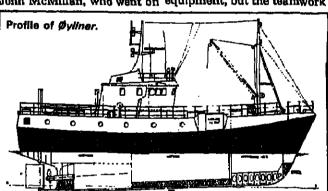
Oyliner set off from port and shot the gear, but a suspected battery fault meant from the records of 23 that the gear had to be left in Norwegian and Icelandic the water and Oyliner was vessels listed as using the towed back in. She is thought system (Oyliner is the 24th). to have retrieved the gear next day.

While the gear was not seen being hauled, most of the visitors were impressed by the demonstration, the Uran family of Krthey were able to see the hauling operation on film.

That pattern emerged from case histories presented by mustad at the symposium from the records of 23 Norwegian and Icelandic vessels listed as using the tower of the gear was not seen in commercial terms, the Icelanders appear to be the most successful.

Judging by the demonstration, the Uran family of Krthey were able to see the hauling operation on film.

used by boats as small as sund Fjord the next month 54ft. they were able to exhibit not However, former skipper only familiarity with the John McMillan, who went on equipment, but the teamwork



the demo trip, said that the plainly essential for its operagear would take up a lot of tion. room on a boat of 54ft.—and Development of the these craft are too small to Mustad system goes back to fish grounds such as Rockall, the mid-1960s and might be

one of the world's leading be far more suitable. He said there are no sizeable long-liners based on the Isle of built longlining vessels has Lewis at present and, while the system is highly impressive, some aboard for the demo still preferred the more traditional method.

rantastic, although he is not prepared to predict if it will catch-on locally.

Two boats similar to Oyliner are now on order in Norway, where the development of long-lining systems goes back a number of years.

An international gathering at the West Norway port of Aalesund saw a demonstration of Oyliner earlier this year.

The general impression gathered from the representatives from Canada, Iceland, Portugal, India and the United Kingdom who were built for Norwegian and Faroesa owners. The three was that the demonstration proved that Mustad now has an effective and workable system. But there were still a number of sconomic questions unanswered after a symposium held at the time of the demon.

However, it seems to boil

r instance. seen as a logical extension of He thought a boat the size Mustad's main business as

He thought the method government policy (and, by antestic, although he is not inference, a fair amount o 'fantastic', although he is not prepared to predict if it will government money) behind it

long range.

OYSTER fishermen working the now famous Stanswood Bay beds in the Solent

are facing a threat from a small tingle which is eating large numbers of young

These tingles, or "drills" as they are sometimes called, have become unusually abun-dant in the area. Surveys by cientists suggest that there is

or some control measures hich are very necessary as it has been found that each ingle can eat 40 oyster spat

A single breeding pair can produce 30,000 tingles in three years and each female

the European rough tingle — Ocenebra to give it its proper name. It is a native drill which, before 1939, lived on all the major oyster produc-

capsules in the rubbish of their dredges. The eggs are usually attached to shells or stones and are yellow capsouth and west coasts of sules stuck end-on. They look rather like granules of plastic.

These egg capsules should be scraped off the shells and increased in the Solent during in the last few years.

other molluscs by drilling a hole through the shell (hence the name drill) and then sucking out the flesh. The trouble is that they prefer

Oyster fishermen can help

pointed welks; they will live quite happily out of water for at least eight days and should

We almost all agree that a better price should be paid for our crabs.

FISHING NEWS

and, in the winter, they tend to hibernate and bury in the

traps during the breeding season (May-July) on to which the drills crawl to lay their egg capsules. Curved roofing tiles can be used. They should be laid in rows, with the curved outer side uppermost, at low water of spring tides and examined fortghtly at low tide.

Mechanical crab picker

seabed.
How can tingles be controlled? One method is to lay

coasts quantities of good quality crabs remain unfished because demand is low. I suppose that the poor price of ten paid for crabs reflects the poor demand from some shellfish processors who have to pay high wages to women and

Some fishermen don't

help by dumping soft-shelled

signments.
The Torry Research Station at Aberdeen has Recaptures tested an American crab meat separator which

developed and used commercially in the USA during the was paid. last decade and it looks as if the separator, which is normally used for crab species

The process involves first the butchering of the cooked whole crab by hand (suitable machinery has been developed in America) after the brown had machinery has the brown body meat has been removed in the normal

The claws, small walking ed near Bridlington were legs and the cleaned body cores, that is the white meat containing parts of the body, are then fed into the chopping

The chopped crab is next fed into a centrifuge bowl in a steam of brine of a particular specific gravity. The brine carrying the crab plus shell is flung by centrifugal force against the bowl: the shell and the meat separate by im-

Tests by Torry staff in the States have been encouraging. The white meat was effectively removed from the various parts of the crab bodies and the amount of meat left in the waste was reconsiderably less than with bond-nicking.

Since the small legs (usually discarded by the UK processing industry) can be

at moulting is basically the one of our shellfish com-panies plans to test this machine here. If crab meat same for the two areas. can be extracted more releas economically, interest in crab season to obtain information processing could be revived to on growth. result in a larger market for UK-caught crab.

Lobster tagging male released off Norfolk male released off Norfolk male released off Norfolk male released off Norfolk moved 11 miles to the north-west in the premilminary results of tagging experiments along the Northumberland, Yorkahire and Norfolk coasts last year.

The programme was carried out by staff from the cast and north-east coasts, and in Wales, is planned for this year.

Copies of the leaflet Laboratory Lobster Tagging, 1976.

Burnham-on-Crouch, Essex, and In Wales, is planned for this year.

Copies of the leaflet Lobster Tagging, 1976.

Burnham-on-Crouch Essex, is obtained free of charge initiated because of falling from the Fisheries laboratory. Remembrance and the growth rate.

Crouch Essex, TRAPPER

migrations, the natural death rate and the proportion of the stock caught by fishing. "This information is need-

ed to be sure that any change in the minimum landing size for lobsters will benefit the

"The lobsters were tagged by a small plastic tag inserted into the muscle between the tail and the carapace, and it after the lobster has

Between June and September 1976, tagged lobaters were released at positions along the east coast

295 off Seahouses, 803 off
Whitby, 152 off Bridlington
and 527 off Sheringham/

crabs ashore and reducing the proximately the size composition overall yield from con- tion of local unselected

Fishermen were asked to meat separator which mechanically picks the meat and is reputed to obtain a higher yield than by hand-nicking the meat and position of capture, to their local fisheries officer or tag collections of 500 plus the The machine has been tor. A reward of 50p plus the

Of the 1,778 tagged lobsters released, 317 (18 per cent) were recaptured up to the end of 1976. The highest recapture rates were off Norfolk (24 per cent) and Whitby (22 per cent). Off Northumberland, where

releases were made at the end of the main fishing season. only a small proportion (5 per cent) were recaptured. Only two of the 152 lobsters releas-

There was a high return of tagged lobsters during the first few weeks after release and, during Norfolk's short lobster season, over half of those recaptured were caught in the first two weeks after

Of those recaptured from The shell then sinks in the layer of brine and the extracted meat floats and is given growth information. On collected; it is then washed of excess brine.

Tests by Torry staff in the

larger increments (14 per cent) than Yorkshire lobsters, but as the Norfolk lobsters easily processed by the equipment, the overall yield should
be considerably better than
by hand picking.

I've heard rumours that
I've heard rumours that
at moulting is basically the

Once again the Torry lab is doing some useful work for miles of the release area; one the industry.

Migrations

male released off Norfolk

The Northumberland

A breakthrough in video processing now gives brighter, clearer echoes on a clutter-free screen. With ordinary radar there are six fundamental problems that can hinder the interpretation of a radar picture - Sea clutter, which can best be dealt with by manual adjustment of the sea clutter controls; Rain clutter, dealt with by manual adjustment of 'rain' and 'sea clutter' and 'gain' controls. (These controls require constant skilled adjustment, sometimes over

But now Decca CLEARSCAN radar solves these problems with unrivalled picture clarity.

long periods, and provide at best a compromise solution.) Radar Interference from other ships

and receiver noise from own ship also worsen the picture. Weak echoes are hard to pick out and small echoes even harder to see at

Sea clutter is suppressed by automatic adaptive control of the Sea Clutter Control.

The rain clutter is suppressed by automatic adaptive control of both the rain and sea clutter controls, and gain level.

Radar interference is suppressed by

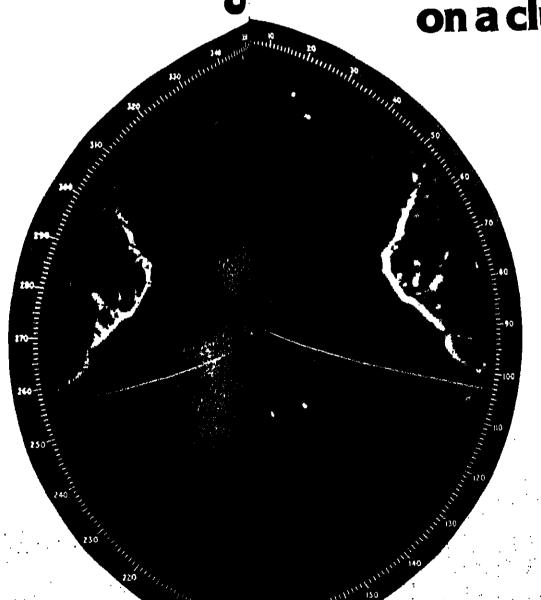
Receiver noise automatically removed.

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...and echoes 'stretched' automatically on longer ranges.

For the radar efficient ship.

...improving the best marine radar in the world.



Suppresses sea and rain clutter Suppresses noise

and interference Makes echoes brighter

-with more contrast Makes echoes longer

All these improvements can now be had with the unrivalled DECCA Solid State 9, 12 and 16 in relative and true motion displays e famous AC display system, on both 3 and 10cm wavelengths.



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for all types of trawlers and seine net boats

The result of intensive research and development.

these new rollers are already proving their worth in

Floatline, Prawn Trawls etc.

Shortway ONE OF the biggest

incorporates a number of new

design features in terms of strongth, durability and safe-

in following the success of the prototype aboard the 86ft.

By the second day of the

A bigger triple at the groundrope rig including he pulling 12 tons, has be fitted to increase the body pulling 12 tons, has be fitted to increase the body officiency in handling key, and is used as standard for efficiency in the sweeps and the section is and the section of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for efficiency in the groundrope rise of IMR down the standard for eff success stories of the exhibition came from the new Peterhead firm of Shortway Rope Guides Ltd. which booked a stand at the very last minute. By the close of the show this small firm had received orders worth £130,000. Shortway has developed a seine rope towing roller (Fishing News, June 3) which

Orders have been pouring Hopeman seiner Acacia

dia and Nigeria also showed interest in the equipment.

GRP boat

show rollers had been ordered by skippers Davie Smith of Anatruther and Peter Stephen of Boddam, near THE NEWEST GRP boat-Peterhead, for use aboard huilder at the show was their vessels Argonaut IV and Harvest Hope III. builder at the show was Scarborough Boats Ltd. A model of its 35ft. hull was on the North Sea Winches their vessels Argonaut IV and ports as far apart as stand.

A MORNING CONTRACTOR

FISHING NEWS

Hopeman and Grimsby, and Director of Scarborough interest was shown in the Boats, John Sheader, has rollers for use aboard anchor made a mould and hulls can seiners in addition to the now be laid up either for com-Scottish fly-dragging seiners. pletion by the firm or at other One North Shields firm yards.

ordered rollers for four With a beam of 12ft. 6in. vessels and coble men along and depth, 4ft. 3in., the hull the north-east coast of has a transom stern, round England have asked bilges and is of forward Shortway to design a smaller

shown in the use of the roller make the vessel particularly suitable for fishing in the rough waters off the northeast coast of England.

Boats are priced at £17,595

this year.

The 89ft. Pathway fishes under Skipper Alex Buchan and is shortly to go to Karmoy for lengthening by some 20 ft. She is to be fitted with An order was placed for a set of rollers to equip the 54ft. wooden boat Orion, now near-ing completion at the Gerrard

Brothers yard in Arbroath, Scotland, for Skipper GRP whaleback and wheelhouse, and an 18mm. for mackerel and blue marine ply deck coated with non-slip GRP. All the external Karmoy is to prefabricate woodwork in the external woodwork in the exter ready-for-sea complete with a extra RSW tanks to give her woodwork is to be of selected the new section and will take hardwood and all iron work about a month to insert it into

The price includes a Ford 108 hp engine with 2:1 reduc-tion gear, Wills Ridley hand hydraulic steering gear, two 75-gallon fuel tanks, naviga-tion and deck lights, plus a small cabin fitted with two to Karmoy for some new blue whiting trawl. bunks, cooker and sink. An aft wheelhouse version could also be built.

Recently the firm fitted out the 24ft. vessel Our Ian for Scarborough fisherman, Alan Roberts. Based on a Saltrain 24 hull, this boat was describ-

ed in Fishing News, May 6.

A DS25 Treeve Marine hull is shortly to be fitted out by Scarborough Boats for Mr. T. Luntley of Scarborough. She is to be equipped for potting and trammel netting, having a forward whealbouse and a a forward wheelhouse and a 2.2 BMC engine.

An order for Wagner Below: Karmoy's display included a fish pump (for hydraulic steering gear for hydraulic steering gear for this boat was placed on the stand of Wagner Engineering Associates Ltd.

Karmoy

THE Norwegian yard now building a big purse seiner for the Tait family of Fraserburgh, Karmoy Mekaniske Vorksted A/S of Kopervik, took a stand.

The firm manufactures a wide range of high-pressure hydraulic gear and catch handling machinery, and the firm's equipment is installed on many purse seiners and seiner-trawlers in the Scottish

The firm started building fishing vessels a couple of years ago. The 135ff, purse seiner Chris Andra owned by the Tait family came from the yard which had details on the stand of the Tait's new purse seiner.

have larger net bins.

Propulsion will be provided by a Wichmann engine of a range of sizes, and the ke' under skippers John 1,200 hp and the majority of and 14in. models can have been skippers and pair that winches including a net figh for human argument banders, which have taken her winches, including a net drum, will be of Karmoy manufacture.

When RSW tanks will have a will have a with the result of the

Her RSW tanks will have a capacity of 480 cu. m. and DRAGALLOY chain of Peterhead ther equipment will include components manuful and the 50ft. vessels Nauru tured by Wheway With and Smallwood of Aberdeen. ton Triplex net winch, Scania and Lister auxiliary engines,

represented on the Karmoy stand at Catch '77.

Kvaerner has supplied a wheelhouse design.

Her deep lines and long, with RSW systems, including the sweeps and deep, slightly raking stem are the Peterhead vessel Pathway backstrops. designed to give a good grip in which was equipped earlier the water forward and to this year.

mechanical type componer and can be made up!

the vessel. The work is expected to be completed in the

Above: model of Scarborough Boat's 35ft, GRP seem seem

21 KARMOY MEK VERKSTED A S

vessels.

An interesting exhibit n:

used for the groundropen

Details were available

Chris Andra has also been equipment, including a net in. size chain.
drum suitable for handling a Dragalloy ch

Layout is traditional, with down and the equipment is be deckhouse aft, and the re-set.

Sound until Life the december of a cable with cruiser stern, raked soft failure, a loud warning buzzer and twin amber lights in-

A Cardner auxiliary engine allows engineers to enter ould drive the Dowty machinery spaces implically include a Jensen A recent Scottish vessel to make and Norlau split net be fitted with Anglesey fire detection and fighting equipment allows engineers to enter mediately after using the system.

A fishroom chilling plant ment is the 74th Astro built also be carried and the by George Thomson and Son.

Simrad/ Saganet

purse seiners, Libas, is seen moored in the Albert Dock for about two years ago. She uses nepection during the Catch '77 It with her Simrad SU soner.

Bullt as the Globe XIII at Isles for Simrad and a full range of Simrad fishfinding Sandefjord in 1950, the 180 ft. vessel was originally a whalecatcher but was later con

She now fishes out of Bergen under Skipper Peder O.Lie and concentrates on the

eines and is fitted with a range f Simrad fishfinding equipnent, including the new CD Sonar Situation Display. This was simulated to show fishing

The CD is a sonar-based ystem used with the vessel's speed log, compass and sonar to give a plan view of the ent

Morep and speed of the boat, plus the DEEPSEA and inshore

Decca is agent in the British

alds was among the large dis-

play of electronic products of

Libas had on board her purse

seine which, since it was

delivered in January 1976, has

netted more than 22,000

Made by Saganet of

Norway, it is designed for

catching caplin or sprats. Per

the show to demonstrate purse

United Kingdom represer

turer, Is Hugh Norman (Marine

Sales) Ltd. This firm also had a

seines and other fishing equip

tative for Saganet, Norway

largest purse seine manufa

he Decca stand.

distance, bearing, depth and direction of a shoal of fish. boat owners were searching for new types Simrad introduced the CD of mid-water trawls at about three years ago and the show. Libes was fitted with a set

The Norwegian net-making consortium of Norsenet Ltd., represented in the UK by Morep Ltd., has taken a look at today's fishing situation and developed a range of nets designed to catch under-used species.

Deepsea trawler owners on Humberside are showing par-ticular interest in single-boat, semi-pelagic nets which, by changing the bags, can be used for blue whiting, mackerel or white fish.

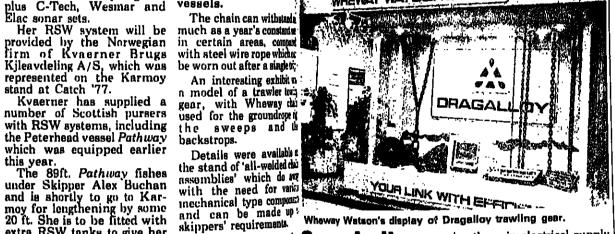
A Norsenet trawl designed for vessels of 1,500 hp has Myrland from Saganet was at wing and forenet meshes measuring 1,000 mm. and has 530 meshes around its fishing

It is a high-opening net made of nylon and the forenet is made up from 210/192

Three bags, one inside the other, are fitted for catching

stand to display a range of Turn to page 14

Simmand somenrs wive the best WHEWAY WATEON (CM) LTD



Whoway Watson's display of Dragalloy trawling gear.

white fish pair tracks the move towards pair trawls and has mell huge demand for its production from Grimsby, Fleetwar and Scotland.

Pair trawlers use the sure type of chain as developed to the deepsea fleet, as smaller vessels use in all in size chain.

Named the 80 Mk.II, she has been designed in conjunction.

A NEW fire alarm and basic of a specification worked out between the yard and these skippers were available on the stand.

Named the 80 Mk.11, sne has been designed in conjunction with English skippers. A NEW fire alarm and detection system designed for vessels in the 40 to 90ft. range was displayed by Anglesey Fire Protection.

Suitable for bottom and tion. pelagic single and two-boat traviling, it is a shortened version of the Campbeltown 85 design, the first of which was share built in 1975 for Skipper Willie Campbell of Elgin.

With an averall to the control of the control of the control of the campbell of the control of the

perpendiculars 21.7m., the 80 automatically sounded and mk. Il has a moulded beam of lights on the control panel in 1.20m., moulded depth dicate the location of the fire.

Amidships of 3.65m. and draft aft of 3.40m.

The alarm continues to sound until the fire has died sound until the equipment is

The fishroom, insulated with GRP, is divided into Several units have already to. Capacities are: 3,500 cu. been installed in new and extinct in the midships section isting vessels in the UK. Anglesey is a DoT certified several units have already been installed in new and extinct in the midships section isting vessels in the UK. Anglesey is a DoT certified several units have already to the bulk in the dicate the defective wire.

Several units have already been installed in new and extended in the UK. Anglesey is a DoT certified several units have already to the bulk in the dicate the defective wire.

Several units have already been installed in new and extended in the units have already been inst

the head 425 rpm to drive a equipment traditionally used.

Knowledge of the control of the contr in the percentage used and

In the event of a fire in With an overall length of either the engineroom or 24.3m, and length between cabin, the alarm is perpendiculars 21.7m., the 80 automatically sounded and Mk. Il has a moulded beam of the control panel in



also invaluable in discriminating between hard and soft bottom and detecting obstacles. More skippers than ever are finding that

Simrad sonars help bring in regular top catches. Automatic search programmes, excellent discrimination and simple operation, coupled with high reliability, have earned Simrad a worldwide reputation as leaders in the Sonar field.

Two examples of Simrad sonars' detecting capability - in this case mackerel - seen on a SK-3 sonar.

Choose from:

1	SL	8K-3	80	\$Q-4	44-	ST	80
	_6° up lq	5° up to	5° up to	5° up to 90° down	5° up to 90° down	nwab oog	5°.ug to 110° down
Aaximum Range	90? down 1600m	1500 m		2500 m	2800 m		3500 m 12, 18 or 24 kHz
requency		29 kHz	27 kHz	27 kHz	24 kHz	21 kHž	157 19 OL Sa Vuit.

Simrad sonars are used in all types of fishing:

Chris Andra regularly brings in top catches of mackerel, using an SK-8, as do Challenge, Speemagna, Stephens, Flowing Tide has contacted pilchards at a range of 2500 metres with an SB-2. Burton Constable, Burton Agnes, Condust and Lindistarne have had an excellent

spirat season using the SL. Wardley is unique in Britain in using sonar for gill net fishing around wrecks for cod, and has been very successful with the SL. Green Valley is successfully pair fishing with Athabaska, using an SK-3 to find the edge of gravel patches.

SIMRAD

 Sealed bearings no grease required.

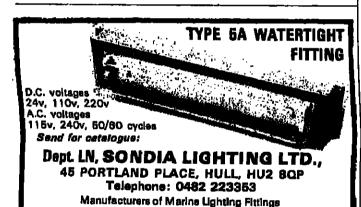
Scottish boats.

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SHORTWAY ROPE GUIDES LTD 3/5 North Street, Peterhead Aberdeen





blue whiting, while two bags are used for mackerel. There were numerous enquiries during the show from inshore fishermen along the north-east coast of England, and from Ireland, for pair and single boat mackerel and

PWAR PRINCIP

supplier of purse seines, and on the second day of the show

seine to be supplied to a UK

Kystvagen yard.

Ballast

after tank tests. It was

biggest mackerel purse

An order for a single boat mackerel trawl for a 90ft. Plymouth vessel had been placed just before the show. stout construction for mackerel fishing and the twine used for its bag ranges from 210/72 down to 210/36. Norsenet is well known as a

Right: Trinity Sands Nets' an order was confirmed for director. John Bulmer, with his famous shooting, fishing and advertising bitches Bonny and Boady — both sporting Fishing It is to go to the 148ft. Sette News balloons and 50-mile Mari, which Skipper James stickers. An unnamed Whitby Slater of Rosehearty, near man placed an order at Catch Fraserburgh, bought '77 for the pick of the litter secondhand from Sweden from the next delivery of pupearlier this year at a cost of pies. This was possibly the The net, measuring 300 by entire show!

minor changes, all three are now stern trawling. As a result of experience, it

decided to follow two separate paths of development. One was for inshore vessels (25-65ft.) where it was decided appears to be undergoing The most tedious part com-

the mechanical baiting should be done on shore and the equipment for this is now The other path was developing medium-size (65-15ft.) purpose-built vessels. It began with a 66-footer with a 15,000 hook capacity Aalesund harbour.

but ran into size problems. Her design follows a Partly this was because of the increasingly stringent stability requirements and partly because, after discussions with fishermen, the proposed vessel was too big for inshore fishing but not big enough for aluminium wheelhouse twisted snoods. deepsea fishing. The idea of a combination (aluminium for compass repurse seiner/longliner was toyed with but, again, the package was too small.
The eventual outcome is

Magazines

the 85ft. Oyliner from the Most of the shelterdeck space is occupied by the three Since 1974 the new hook magazines, each holding Institute of Fisheries 8,000 hooks. In the space Technology Research has between the magazines and Technology Research has between the magazines and been handling the "3F prothe transom atern are two ject" and Tore Jøgensen, of rails on which are mounted the Vessel Design Division, the automatic baiting system not only works but — has been on trials but the vessel Design Division, the automatic baiting with the right crew — can be catch rates but the catch rate lyliner with contributions ing and hook separating work very offectively. This rom Jostein Aure of machine. The line is shot through a

Uran family and the Kyst-port in the transom stern and the automatic baiting the North Sen. Norwegians are very con-machine (fed with frozen erned with stability and squid or mackerel) operatos heavy emphasis on the at the same rate as the line is University of Fisheries, three hooks a second. Even though the bait used had defrosted too much and was a little soft, well over 90 per cent of hooks were baited.

Speeds of four hooks a second, at up to 12 knots, are

The steel shelterdeck rais-The line, when recovered. ship had to have increased comes in through a port on the starboard side at the beam (24ft. 6in.) to overcome this. The scientists, it seems, forward end of the working want to follow the merchant vessel practice of water

ballast in ships of this size but
the fishermen won the day
and, at their insistence, fixed
ballast (installed after the inclining tests) featured in the
final design.

A conventional longline
power hauler is used, pulling
the line through rollers which
knock the fish off the hook
and brushes which clean off remaining bait.

There is, however, a roll

The line is fed into a tube
reduction tank, using the free leading back to the twist
surface effect of water, fitted
removing and hook The line is fed into a tube leading back to the twist separating machine at the

after tank tests. It was separating machine at the emphasised that this should not be called a "stability tank" and it seems the skipper (although, in this case, positive about its effect) has to know what he is doing or it can turn into a roll increase tank, with imaginably disastrous results.

In the initial design stages a computer simulation design tank as it comes off the line, before gutting and washing on adjoining benches, and then it is dropped into the fish hold immediately below. Species not requiring gutting (such as dogfish) can be knocked off

programme (SIMFISH) was the hook on to a slide conused for technical and veyor leading directly to the
economic evaluation, and it hold. from a six-day trip. The formance was confinal

urther development. es at the point where the the Icelandic owner.

The outcome of all this is hooks go back on to the A similar Norm. still a fairly conventional magazine. This, on the vessel, Forde, with say design of vessel and, apart demonstration, called for a of 12,000 hooks and to from the new paint, Oyliner four-man team on what is 11, has average 16,000 did not stand out as in any plainly a tiring job requiring a day doglishing for the way unusual when moored both speed and concentration hooks and an #6. alongside other longliners in tion. Because of this, the team catch from an 11-day't frequently changed places.

The first man watched the evidence to show an i horizontal division of hooks as they passed an in- tage for automated in engineroom / fish hold / spection gap between the over traditional log refrigerated bait store below separator machine and the and this can possible the waterline; shelterdeck magazine rack. His job is to further increased above the waterline; all spot bent, broken and mis-purpose-built vessel a topped by a mid-position aligned hooks and unduly afforded (Oyliner is 18)

(aluminium for compass re- Most of the misaligned £450,000). It remains quirements, rather than hooks and twists he was able proved, however, her system 6 to deal with himself, passing on the other work to his colleagues who had to swiftly and deftly straighten hooks or

is at present develope While a run on a calm fjord is not an ideal demonstration, own compact system and her catch rates have was confirmed by a film on a par with other which Mustacl showed of a fishing the same area.

Norwegian vessel catching large quantities of doglish in the North Sea.

Of several case histories presented by Mustad, the stability requirements was pulled out. On the demonstralaid by Emil Aall Dahle, tion run, 600 hooks were shot the Icelandic vessel Bergthor, the system will be gain associate professor at the at eight knots at a speed of a 118ft. steel longliner with a on the vessel again as three hooks are as a possible.

WILLS-RIDLEY HYDRAULIC STEERING GEAR

to have cost as:

£450,000). It remains t

petitive the system (a

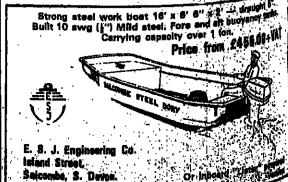
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FISHERMEN are being asked to look out for 'red-tide', coloured patches of water well offshore which are offshore which are part of a food chain that can cause that can cause paralysis in people eating shellfish. Reports of sightings, particularly off the north east cases are sought by the coast, are sought by the MAFF Fisheries laboratory MAFF Fisheries laboratory at Burnham-on-Crouch, Essex, which is investigating shellfish toxicity. The laboratory monitors The laboratory monitors the toxin in mussels from the

organisms, often very ornate

Lindsey, which also crewed

Bannister trawlers — notably

breaks of the paralysis, known as Paralytic Shellfish Poisoning (PSP). But it acknowledges that wide co-operation from has been adopted to prevent fishermen, sea fisheries any risks to public health. If committees and others is es- this standard is exceeded the antial to understand more fishery is closed. about the factors involved.

north-east to prevent out-

PSP is rare in Britain only ten outbreaks, involving 146 people, have been record-ed in the last 150 years. However, cases have been reported in many parts of the world and documentary **Colour** world and documentary evidence suggests that PSP as we now know it has been recorded at intervals for at least 300 years.

The 'red tide' is one of a variety of 'clouds' of the plant or phyto-plankton in the sea which is an important food and the plant or phyto-plankton in the sea which is an important food and the plant or phyto-plankton in the sea which is an important food and the plant or phyto-plankton in the sea which is an important food and the plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plankton in the sea which is an important food and plant or phyto-plant or

It was detected on the which is an important food north-east coast in 1968 and source for many marine since that time the Burnhamon-Crouch laboratory has on-Crouch laboratory has They consist primarily of carried out annual surveys diatoms and dinoflagellates between Bridlington and which are small single-cell

This is normally done by and occasionally brightly taking samples of mussels at coloured. Under favourable weekly intervals from coastal conditions of sunlight.

Wralth, one of Grimsby's

at the age of 36, his passing saddened not only his immediate family and relations but also Grimsby's trawling industry. For he was a man endowed with received

Personifying the new breed

of near water skippers in Grimsby, Andy Wraith was an example of what can be achieved by selfless dedica-

^{kna}nd with several last time

endowed with rare talent.

these single cells may divide show no visible signs of toxiciand reproduce very rapidly. But in warm-blooded

have been identified every year and a safety standard enormous numbers of them may colour the water, blue, brown, green or yellow, causing paraly depending on the organism responsible. When these **Sample** Although the fishery at risk very small, it is important water red they produce the is very small, it is important to the entire fish industry that public confidence in the

wholesomeness of fish and In some parts of the world, rarely in Europe, 'red-tide' may result in fish kills, but shellfish is not diminishing. often it exhibits no undesirable effects other than to produce a visible scum on the water or beaches.

Some of the causative dinoflagellates, however, produce a very potent eurotoxin and they may be filtered out by bivalve molluses, such as mussels and centrate the toxin.

Marine cold-blooded animals are unaffected by the toxin so that the shellfish

Although individual cells animals, including man, are invisible to the naked eye, which eat the shellfish the toxin blocks the links

Crews of fishing vessels off the north-east coast who see a patch of discoloured water which could be 'red tide' are asked to note its position, colour and size and if possible take a water sample from it.
They should inform their local MAFF Fisheries Office as soon as possible afterwards, or contact the Fisheries Laboratory, Burnham-on-Crouch, Essex, (Tel: Maldon 0621 782658). Any postage or incidental expensos incurred will be

in this way can help to solve a

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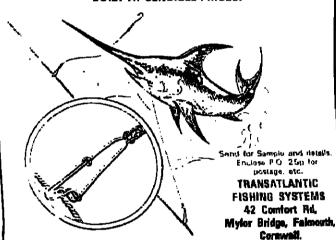
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AS BRIEFLY reported owners, but it was not until he joined Lindsey Trawlers Ltd. Wralth, one of Grimsby's in 1967, as a third hand, that most enterprising trawler skippers, died after a tragic and sudden illness on July 2. he was given the opportunity to realise his ambitton and rise to the top of his profession in the North Sea. Struck down in his prime at the age of 36, his passing saddened not only his immediate family and relations.

Lindsey, which also clowed the Alfred Bannister Trawlers Ltd. fleet, placed Andy in a series of different mediate family and relations. Saxon Venture — as mate.
This broadened his horizons and he became one of the port's most promising North

was followed in 1972 by the skipper Andy Wraith — 'a rare talent'.

Like most successful mands and, such was his immost strawling career at the very bottom of the ladder as a galley boy straight from school. He was an ambitious deckhand with several last time.

This quiet family man—
Successful mands and, such was his impact to the leaves a wife and five into a very popular and skilful prime North Sea tragely to beginning to reap the full this, despite the onset of light mands and, such was his impact to the leaves a wife and five into a very popular and skilful prime North Sea tragely to beginning to reap the full this, despite the onset of light mands and, such was his impact to the leaves a wife and five into a very popular and skilful prime North Sea tragely to the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with beginning to reap the full the faith and guidance of Lindsey Trawlers with the faith and guidance of Lindsey Trawler "His death is a tragedy to us all for he was a young skipper who was certainly go-

this, despite the onset of illness, has made Tom Grant
the top company vessel.
There is little doubt that
Andy Wraith could have
matured and developed to
rank among the greats of
Grimsby's North Sea

dimers.

"His death is a tragedy to
us all for he was a young
skipper who was certainly going places.

"He will be sadly missed
by Lindsey Trawlers Ltd., its
crews and management and,
especially, by my father

skippers: especially, by my father
Paying a final tribute for Edwin Bacon and myself."
Lindsey Trawiers Ltd., Ross

Fish firm growing

THE BERWICKSHIREbased fish processing firm of Homae Ltd. is An application for planfirm of Homae Ltd. is An application for planning permission to convert a
blanking to expand.

The firm which already book building yard at Dunbar
has factories at Duns and into a processing factory has
new fish processing factory at
Development Committee of
Essat Lothian District CounA spokesman for the firm cil.

PORT MARKETS

July 15, 1977

£18/£20; per l0st. kit.

MACDUFF

Catches and Prices

TOP LANDINGS LAST WEEK

GRIMSBY

Distant water £49,730: Vivaria, BUT (Sk. R. Kurz), 1,782k, BI, 24 days.

£39,469: Northern Reward, BUT (Sk. W. Harris), 1,345k, BI, 26

days.
£39,128: Barnsley, Consol (Sk. J. Hodson), 1,214k, WS, 25 days.
£37,644: Ross Rodney, BUT (Sk. G. Carsberg), 1,153k, BI, 22 days.
£34,365: Ross Kipling, BUT (Sk. W. Ferrand), 1,203k, BI, 24 days. £23,173: Aldershot, Consol (Sk. A. Call), 1,091k, WS, 24 days.

£22,154: Belgaum, Boston (Sk. J. Stevens), 703k, BI, 26 days.

£37,445: Ross Leopard, BUT (Sk. J. Brown), 1,288k, W, 15 days. £26,001: Yesso, Taylor (Sk. P. Brown), 885k, F, 18 days. £25,516: Real Madrid, Consol (Sk. E. Cotton), 698k, F/W, 16 days. £21,429: Ross Civet, BUT (Sk. A. Redpath), 813k, F, 16 days. £19,165: Osako, Taylor (Sk. P. New-by), 684k, F/W, 17 days.

North Sea £4,828: Tom Grant, Lindsey (Sk. R. Sinclair), 170k, NS, 13 days. £2,190: Lepanto, Lindsey (Sk. T. Oxton), 73k, NS, 9 days.

Sainers £10,832: Saxon King, Sleight (Sk. B. Emerson), 314k, NS, 14 days. £10,736: Bekimael, Consolidated (Sk. A. Bojen), 309k, NS, 15 days. 28,702: Arcona Champion, Chapman (Sk. K. Larsen), 233k, NS, 13

£8,616: Beverley, Allard Hewson (Sk. J. Stringer), 233k, NS, 15 days.

£8,409: Gladnes, Jubilee (Sk. J. Olesen), 245k, NS, 17 days.
£8,140: Lochearn, Sleight (Sk. A. Van Zamduliet), 255k, NS, 17 days.
£8,019: Bellona, Consolidated (Sk. A. Thinneson), 257h, NG 15 A. Thinnesen), 257k, NS, 15 days. £7,683: Coral Bank, Sleight (Sk. D. McKenny), 267k NS, 14 days. £7,572: Scanboy, Sleight (Sk. P. Collins), 205k, NS, 13 days. 27,520: Iysha, Richardson (Sk. J.

Carson), 239k, NS, 14 days. £7,409: Linda Lise, Richardson (Sk. C. Olesen), 259k, NS, 17 days.

E No

T.

£19,830: Carl Borum (Sk. G. Riley), £17,314: Jacqueline Borum (Sk. J. Bailey), 83k, 11 days.

Borum), 526k, both Danbrit, NS, 14
£2,275: Granton Merlin, 79k, 13

ON TUESDAY 193 tons were

delivered. Average selling prices on merchanta stalls: salmon English, £1.60/£2.40; Scotch, £1.60/£2.40; Irish, £1.60/£2.40;

Bojen), 461k, and £15,442: Frances Bojen (Sk. J. Richardson), 434k, both John R., NS. 11 days. £11,742: Ann Charlotte (Sk. R.

Collins), 328k, and £9,129: Laurids Skomager (Sk. J. McColl), 255k, both John R., NS, 13 days.

26,181: Melissa Louise (Sk. M. Clark), 240k, and 25,746: Ellen (Sk. A. Thinnesen), 235k, both Richardson, NS, 17

days. £6.542: Kathleen (Sk. J. Hill), 199k, Richardson, and 24,911: Taarnborg (Sk. T. Scorer), 141k, Danbrit, both NS, 16 days.

£42,550: Ross Sirius, BUT (Sk. D. Whiting), 1,372k, BI, 24 days. £39,650: Arctic Cavalier, Boyd (Sk. C. Walker), 1,217k, BI, 25 days. £36,621: Ross Leonis, BUT (Sk. D. Paterson), 1,105k, BI, 25 days. £34,977: Westella, Marr (Sk. R. Beamish), 1,288k, BI, 23 days. £30,816: St. Dominic, Hamling (Sk. J.R. Nelson), 939k, BI, 22 days.

26,406: Falkenborg, Boston (Sk. O. Pedersen), 232k, 16 days. £5,826: Christiansborg, Boston (Sk. E.S. Dam), 227k, 12 days. £5,763: Guldborg, Boston (Sk. H. Kristensen), 208k, 20 days.

£3,444: Rosenborg, Boston (Sk. G. Jonassen), 138k, 19 days. FLEETWOOD!

£37,252: Boston Blenheim, Boston (Sk. R. Rawcliffe), 1,259k, 27 days.

£21.600: Fyldea, Marr (Sk. D. Evans), 753k, 16 days. £21,533: Jacinta, Marr (Sk. G. Wignall), 685k, 15 days. £18,191: Irvana, Marr (Sk. V. Dingle), 610k, 15 days. £17,724: Wyre Vanguard, Wyre (Sk. R. Slapp), 651k, 16 days. 25,130: Rosamonda, Ward (Sk. K.

Beavers), 202k, 14 days. £3,315: Replenish, Ward (Sk. M. Oldman), 126k, 15 days. £2,750: Girl Doris, Ward (Sk. J. Delroy), 70k, 15 days. £2,674: Resolute, Ward (Sk. W. Ansell), 119k, 15 days. £2,672: Resilience, Ward (Sk.

FISHING NEWS

THURSDAY, JULY 7.

EYEMOUTH

Prices: large codling, £23; medium, £22.50; small, £17.50/£20; best small, £17.50/£20; best small, £21/£21.90; plaice, £12/£14; large haddock £22; medium, £19.50/£22; small, £10.60/£12; medium whiting, £14; small, £11/£14.70; lemon sole, £24/£32; per 7st. kit; lobster, £1.60; per 1b.

FRIDAY, JULY 8

DUBLIN

1,021 boxes from Killybogs, Groencastle, Howth and Dun Laoghaire met a good demand. Prices: grilse, £1.20/£1.25; lobster, £1.40/£1.80; prawn, £18/£20; per lost. kit. £21.130: Ben Bhrackie, Irvin (Sk. G. Baxter), 855 k, NC, 22 days. 220,169: Ben Heilem, Irvin (Sk. R. £16,750: Margrethe Bojen (Sk. Jens Cusitor), 680 k, F, 17 days. Bojen), 461k, and £19,842: Admiral Nelson, Wood (Sk. R. Pirie), 668 k, 16 days. £19,096; Pindarus, BUT (Sk. J. Glasgow), 858 k, S, 15 days. £16,839: Grampian Chieftain, North Star (Sk. R. Leiper), 861 k,

W, 12 days.

E14,151: Glen Moriston, Marr (Sk. J. Chisholm), 623 k, S, 11 days.

£14,321: Boston Sea Ranger, Boston (Sk. I. Lace), 484k, NS, 11 days. £11,700: St. Rose, Colne (Sk. S. Jones), 413k, NS, 13 days. £11,314: Suffolk Venturer, Small

(Sk. H. Baxter), 421k, NS, 12 days. (Sk. R. Bakter), 421k, NS, 12 days. £10,822: Bentley Queen, Talisman (Sk. A. Gill), 333k, NS, 12 days. £10,785: Boston Sea King, Boston (Sk. P. Meen), 370k, NS, 10 days. £10,460: St. David's, Colne (Sk. J. Harper), 350k, NS, 12 days.

NORTH SHIELDS £9,631: Persevere, AF (Sk. P. Johnstone), 26,924kg, NS, 7 days. £8,175: Bishop Burton, Newington (Sk. T. Fairley), 19,480kg, NS, 4

£5,223: Girl Margaret, AF (Sk. D. Stewart), 11,790kg, NS, 3 days. £5,017: Invader, AF (Sk. I. Lee), 9,626kg, NS, 4 days. £4,028: Supreme, AF, 9,153kg, NS,

£3,589: Burton Lonsdale,

Newington (Sk. J. Lota), 8,200kg, NS, 3 days.

GRANTON

£25,012: Arctic Brigand, Liston (Sk. A. Wood), 1,075c, NS, 15 days.
£16,059: Arctic Invader, Liston (Sk. J. Robb), 787c, NS, 12 days.

NEWLYN

Prices: large whiting, £2.20; mackerol, £1.6: large mackerol, £1.6: large-medium, 60p; small, e1; bream, £6.60; large plaice, £4; medium, £3.40; small, £2; large lemon sole, £5; medium, £3.40; small, £2; large lemon sole, £5; medium, £3.40; small, £4; small, £1; bream, £5.60; large plaice, £4; medium, £3.40; small, £2; large lemon sole, £5; medium, £4; small, £2; large lemon sole, £5; medium, £4; small, £2; large lemon sole, £5; medium, £4; small, £5; medium, £64; small, £6; medium, £64; small, £65; medium, £65; medium, £64; small, £65; medi

23,274: Brenda Wilson, Jones (Sk. R. Evans), 143k, 12 days. 3,828 kits from three distant 23,247: Picton Sealion, Norrard (Sk. T. Salter), 118k, 12 days.

KEY: BI Bear Island; BS Berents Sea; DW distent water; F Farce Islands; G Greelend; IW home water; Islands; G Greelend; IW home water; Islands; G (228,70); bulk, 231.50(238,75); Greenland; HW home water; 1 Iceland; 18 £27/£34.50 (£28.70); hulk, litah Sea; NC Norway Coast; NFL Newfoundland; NS North Sea; R Rockell; S Shetland; W Westerlies; WC West Coast; haddock, £13/£37.50 (£19.10); coley, £17.50/£21.75 (£18.80);

WS White Sea, Sk Skipper; k kits; c cwt; unsorted, 21.50/21.80; orabs, over 3lb., 30p/40p; under 3lb., 20p/25p; small, unsorted,

20p/20p; small, unsorted, bp/10p; prawns, 52p/80p, per lb; winkles, 1rish 213; per cwt; wheiks, 24; per bushel; shrimps brown, 21.50; pink, 90p/21.50; English cockles, 21.80/22; per gallon.

FROZEN FISH

ATLANTIC NA salmon, 21.75; Japanese, 21.10; Canadian halibut, £1.30; scampi, 21.15/22.85; anappers, 28p; hun saam, 43p; barbouni, 62p; wong far, 43p, per lb; fillets, plaice, 29.10; cod, £7.70; haddock £8; squid, £4.48/25.80; kippers, £3/24; per stone.

23 boats met a good demand. Prices: shelf cod, £3.60/24.20; codling, £2.60/23.40; shelf haddock, £4.20/24.50; medium, £2.70/25.50; small, £1.30/25.50; large plaics, £4/24.40; medium, £3.70/24.40; best small, £3/24; large plaics, £4/2.10; lemon sole, £6/25; anappers, 28p; hun saam, 43p; barbouni, 62p; wong far, 43p, per lb; fillets, plaice, £9.10; cod, £7.70; haddock £8; squid, £4.48/25.80; kippers, £3/24; per stone. MILFORD HAVEN
311 kits from two boats. Prices:
large cod, £32; medium £31; codling, £30; large hacidock, £35; large plaice, £49; medium, £47; small, £22/£22.50; turbot, £143; whiting, £13.40/£15; medium lemon sole, £50; Dover sole, £134; slips, £118; tongues, £96; large ray, £24.50/£27; medium, £28; small, £19.20/£20.50; hrill, £54; dogfish, £6; per &st. kit,

HERRING REPORT

TUESDAY, JULY 12

Kelly, Ross Leopard, Ross Tiger, Ayr. 16 trawlers, 38 tonnes, Yesso.

HULL homemarket at 255.20/262.20.

Expected during the week from 180/210 and 260/300 per 50kg.

White Sea and Bear Island: Tarbert: 10 trawlers, 17 tonnes, homemarket at 261.60/263.80.

Eribol, Lord, St. Vincent, Ross Hull and filling. Hand selected Alsair, Ross Candivers.

180/210 and 260/300 per 50kg.

350 boxes from 11 boats. Plat skate, £9; haddock, £1]£ whiting, £5.60/£13; per bu; of ing, £1.80/£2.40; plain £2.10/£4.25; lemon sol £3/£3.60; per stone.

lobster, £1.40/£1.80; prawn, 16p/£35p; prawn tails, 62p/£1.30; black sole, £1.10/£1.20; slips, 40p; brill, 16p/25p; turbot, 16p;90p; dabs, 5p/6p; cod, 17p/26p; large plaice, 24p/27p; medium, 18p/23p; small, 8p/10p; whiting, 16p/18p; lemon sole, 12p/15p; haddock, 14p; per lb; round whiting, £7/£14; ray, £3/£14; mackerel, £5/£6; herring, £8; per box.

BRIXHAM
Prices: large plaice, £2.90/£3;
medium, £2.90/£3; good small,
£2.50/£2.80; chats, £1.70; large
pouting, 80p; small, 40p/50p;
turbot, £11.70/£12; large whiting,
£2.50; small, 60p; large and
medium lemon sole, £5.80; small,
£4.50; large Dover sole, £19;
medium, £18.50/£18; slips,
£10.80/£11.50; tongues £9; brill,
£5.80; squid, £4.70; large congor,
£1.20; medium, 70p/80p; small,
40p/50p; small gurnard, £1; large 460 boxes from eight ten Prices: lemon sole, £1/£5 monkfish, £1.90/£2; per str codling, £18/£22.60; large h £5.80; squid, £4.70; large congor, £1.20; medium, 70p/80p; small, 40p/50p; small gurnard, £1; large roker wings, £4.80/£5; medium, £1.50; small, 80p; large dabs, £3.50; medium, £1.50; small, 80p; trawl mackerel, 70p/80p; small John Dory, £1.20; per stope 480 boxes from 11 bosts Pro haddock, £1.30/£2.70; cd. £1.20; per stone.

lobster, £1.40/£1.80; prawn,

MONDAY, JULY 11

matings, £1/£2.10; stm £1/£1.20; monklish, £1.50/£1 plaice, £1.30/£1.60; liq 90p/£1.10; per stone. KINLOCHBERVIE
700 boxes from six boats Pris
cod, £2.60/£3.10; hadded cod, £2.80/83.10; insular £1.40/£3.20; plaice, £1.50/£5; megrim. £1/£2; bake, £1.50/£5; monkfish, £2.30/£2.60; sho £1.30/£2.60; whith £1.30/£2.30; saithe, £1.50/£5.

LOCHINVER
400 boxes from ten boats. Pris
cod. 22.20/£3.30; hadded
£1.50/£3.40; whitti
£1.10/£2.20; plaics, £1/£5;
megrim, £1.20/£2; whichs £
dabs, 90p/£1.50; month
£2/£2.50; skate, £1.15/£5;
whole prawn £8.50/£10; hp
prawn tails, £10/£20.55; £; LOSSIEMOUTH

LOCHINVER

coley, £17.50/£21.75 (£18.80); bergylts, £14.15/£19.25 (£18.10); plaice, £22/£34 (£28.30); halibut, £52/£60 (£55.20). No distant water bulk haddock.

GRIMSBY

A good supply of 7,410 kits from 23 boats met a good demand. Prices: shelf cod. £3.60/£4.20:

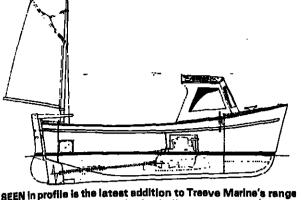
BETERHEAD PETERHEAD 2,763 boxes from 19 kgs cod/codling, £3.00/£2.40; colding, £3.00/£4.0 kitsing, £1.50/£2.40; monking, £1.60/£2.70; hake, £2.40/£2.10; hake, £2.40/£2.10; plaice, £2.40/£2.10; plai £10.20/£25.50 per box

NORTH SHIELDS
Prices: cod, 224/226; spres it
medium codling, 233/218; selected, 221; small, 11; is
haddook, 223/226; stell
haddook, 223/226; stell
224/226; selected small, 1818;
224/226; selected small, 1818;
complete the country of the complete the co

RETAIL PRICES

AVERAGE national retail price
on Wednesday, July
supplied by the National Fact
tion of Fishmongers, and
fillet, 88p. down 1pt held
fillet, 91p, up 1pt coley filet, 1pt
down 2p; plaice fillet, 30p, 4pt
smoked cod fillet, 31p, 4pt
whiting, 49p, up 50; and
whiting, 49p, up 50; and
kippers; 42p, up 3pt skel,
kippers; 42p, up 3pt skel,
down 1pt dognat, and

July 15, 1977



of hulls. Named the DS19, the hull was announced at the Humberside Catch 77 fishing exhibition last month. It has been designed by Denis Swire and has an overall length of 19ft. 6in.; beam, 7ft.; moulded depth, 3ft. 11in.; and draft aft, 2ft. 3in. Price of the basic hull with frames is set at £1,265 and the first boat is due in the water next spring.

Cooled hold on new hulled seiner-trawler Rhodella has been built by Jones Buckie Slip and Shipyard Ltd. as a

replacement for an 11-

skipper Eric Smith of Buckie ordered the transomsterned vessel which has been Co. and is powered by a 500. And is powered by a 500 and kelvin engine.

Gear handling machinery includes a Sutherland seine includes a Sutherland seine in Speaking at a reception and power block. She is also back to his grandfather's day. Their boats are now even better,' he commented.

Their boats are now even block to his grandfather's day. Their boats are now even better,' he commented.

Rhodella should be ready for sea later this month.

All three boatyards in Buckie have recently booked new orders. Jones has laid the new orders. Jones has laid the new orders. Jones has laid the selled echo sounder and Tenfjord steering gear. Her whaleback, gutting shelter and masts are of aluminium.

Speaking at a reception Watson design and will be Buckie ordered the transom-sterned vessel which has been designed by G. L. Watson and

YARDS IN Devon and Scotland are co-operating to produce a standard 36ft. long steel fishing vessel. The first is to be built on spec in Scotland this

Salcombe, Devon, and the a 36ft. vessel now known as Ardmaleish Boatbuilding Co. the Western Isles 36. on the Isle of Bute, Scotland,

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E. S. J. Engineering of have designed and developed

The prototype, built at Salcombe, has been fishing from a south coast port for about two years. Designed for potting, trawling and scallop dredging, the Western Iales 36 is a heavy-duty vessel with an overall length of 36ft., beam of 12ft. and draft, 4ft.

She is of double-chine construction and the underwater bow form is based on the lines of old Nordic sailing vessels.

Most of the hull plating is in.

thick and welded to 2 in. x

in. frames spaced 21in. between their centres.

The keel is of Sin. x Sin. x in. heavy wall, hollow section, steel which contributes to stability and handling.

Working space on deck tops 200 sq. ft. and the hull is sub-divided into three water-

quirements and the fuel tank has a capacity of 300 gallons. An unusual feature for a vessel of this size is that the design allows for fitting a small bow thruster to increase manoeuvrability in confined waters. The wheelhouse can be of steel or GRP and will give all-round visibility.

The Ardmaleish yard occupies the premises of the former Buts Slip Dock Co. which went into liquidation which went into liquidation about two years ago. Regional re-organisation has brought the yard into the area covered by the Highlands and Islands Davelopment Board.

New winches have been fitted and the slipways overhauled with HIDB assistance; the yard has been busy with overhaul work on boats up to 65ft. long. Eventually; the yard will be able to slip vessels up to 90ft.

replacement for an 11year-old boat of the
same name from the
word

Hydraulics seine rope reels with the Jones yard going
and power block. She is also back to his grandfather's day.

Whelhouses will be of

ing to the future with consister-ships for skippers J.

Aitken of Buckie and I.

Two steel vessels are now

Commander Young went superstructure and engine on to talk about the previous forward.

spotless — a clean, happy and for each boat includes a January 28). efficient ship. Eric Smith will Sutherland trawl winch, Under c no doubt make a success of Lossie Hydraulics net drum, alongside Skipper Thomson's his new vessel, which he a small Petter battery-richly deserves'.

Skipper Smith said that his Tenfjord steering gear and partners of Buckie.

Whalebacks and wheelhouses will be of

Speaking at a reception Watson design and will be after the launch, yard director, similar to Rhodella.

Commander Robert Young, George Thomson and Son said that in having a new boat built Skipper Smith is lookbuilt Skipper Smith is lookbuilt Skipper Smith is lookbuilt two 54ft. wooden-hulled burgh. She, too, will have a signar ships for skippers.

'He is convinced that there McDonald of Stonehaven. under construction. The refish to be caught and that, They are to be fitted main-larger one is an 80ft. cruiserare fish to be caught and that, with an efficient boat and crew, he will catch them, be to be 18ft. and they will be of Skipper John W. C. Thomson of Lossiemouth who now stern trawler layout, with the of Lossiemouth who now fishes in the 77ft. wooden

boat Horizon.
His vessel is the first of a Rhodella: When this boat Each is to be powered by a was on the slipway recently it was an education to see her, he said.

'She was absolutely of the equipment specified specified by the specified specified by the said of the equipment specified specified by the said of the equipment specified sp

Under construction



Prototype 37-footer

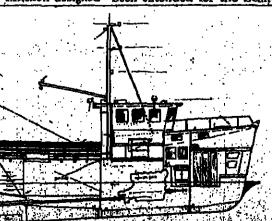
tight compartments.

Propulsion is by a 105 hp diesel driving a 26in. four
Discount of the Scandinavian market is soon to be built by Cygnus Marine in Cornwall.

The main deck has been designed as a standard boat for the Scandinavian market is soon to be built by Cygnus Marine in Cornwall.

The main deck has been designed as a standard boat for the Scandinavian market is soon to be built by Cygnus Marine in Cornwall.

The main deck has been designed as a standard boat for the Scandinavian market is soon to be built by Cygnus Marine in Cornwall.



Cygnus Maring's export 37-footer has a deep hold luxury commodation still 144 big on tep.

THE prototype of what has been designed as a dinavian prototype and there

bladed propeller through a 3:1 reduction gearbox.
Gear handling machinery can be fitted to customer recan be fitte

equipped.

She will have a beam of a 14ft and a depth of 5ft. 3in. Gross tonnage will be 19.25.

The stern lisher is based on the Gary Mitchell-designed to the Gary Mitchell to the Gary Mitche

table. It is to be fitted out with central heating, toilet, comprehensive galley, hot and cold water, heated Kent Clearview, demisters, etc.
Almost one-quarter of the boat's cost will be in the propulsion machinery. She is to be powered by a 144 bhp Volvo MD100B diesel driving through a Servogear CP propeller in a fixed Kort nozzle.

A two-ton Spencer-Carter hydraulic trawl winch has been specified for the bat-which will be trawling for bot-tom fish, and working on mackerel. The hull is due to be moulded in two months.

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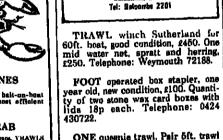
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